

LINEAL FEET OF WALL _____

STEEL SCHEDULE (GRADE 40)

MARK	SIZE	TYPE	R	S	LENGTH	TOTAL LENGTH
A	#4	STR	---	---	7'-0"	
B	#4	2	4'-2"	10"	5'-0"	
C	#4	STR	---	---	6'-0"	
D	#5	STR	---	---		
E	#4	STR	---	---		
N	#4	2	2'-0"	2'-0"	4'-0"	

CONDITIONS OF USE

BACKFILL: 2 TO 5 FEET
LESS THAN 50% FINES ONLY
MACHINERY SURCHARGE LOADING CONDITIONS ALLOWED
(SEE PA-DESIGN GUIDE 4)
• NONE

DESIGN VALUES

- EARTH BACKFILL: 60 PSF/FT, EQUIVALENT FLUID PRESSURE
- 110 PCF (SOIL WEIGHT) AND <50% FINES
- MANURE: 65 PSF/FT, EQUIVALENT FLUID PRESSURE
- MACHINERY LOADING: 0 PSF EQUIV. FLUID PRESSURE
- ULTIMATE STRENGTH DESIGN (ACI 318-99)
- CONCRETE STRENGTH: 4,000 PSI REBAR: GRADE 40
- COEFF. FRICTION (SOIL/CONCRETE) = 0.5
- MINIMUM SLIDING FACTOR OF SAFETY = 1.5
- WALL SLIDING RESTRAINT REQUIRED
- MINIMUM OVERTURNING FACTOR OF SAFETY = 2.0
- MIN. ALLOWABLE SUBGRADE BEARING CAPACITY = 2000 PSF
- NOT DESIGNED TO SUPPORT BUILDINGS OR ROOFS

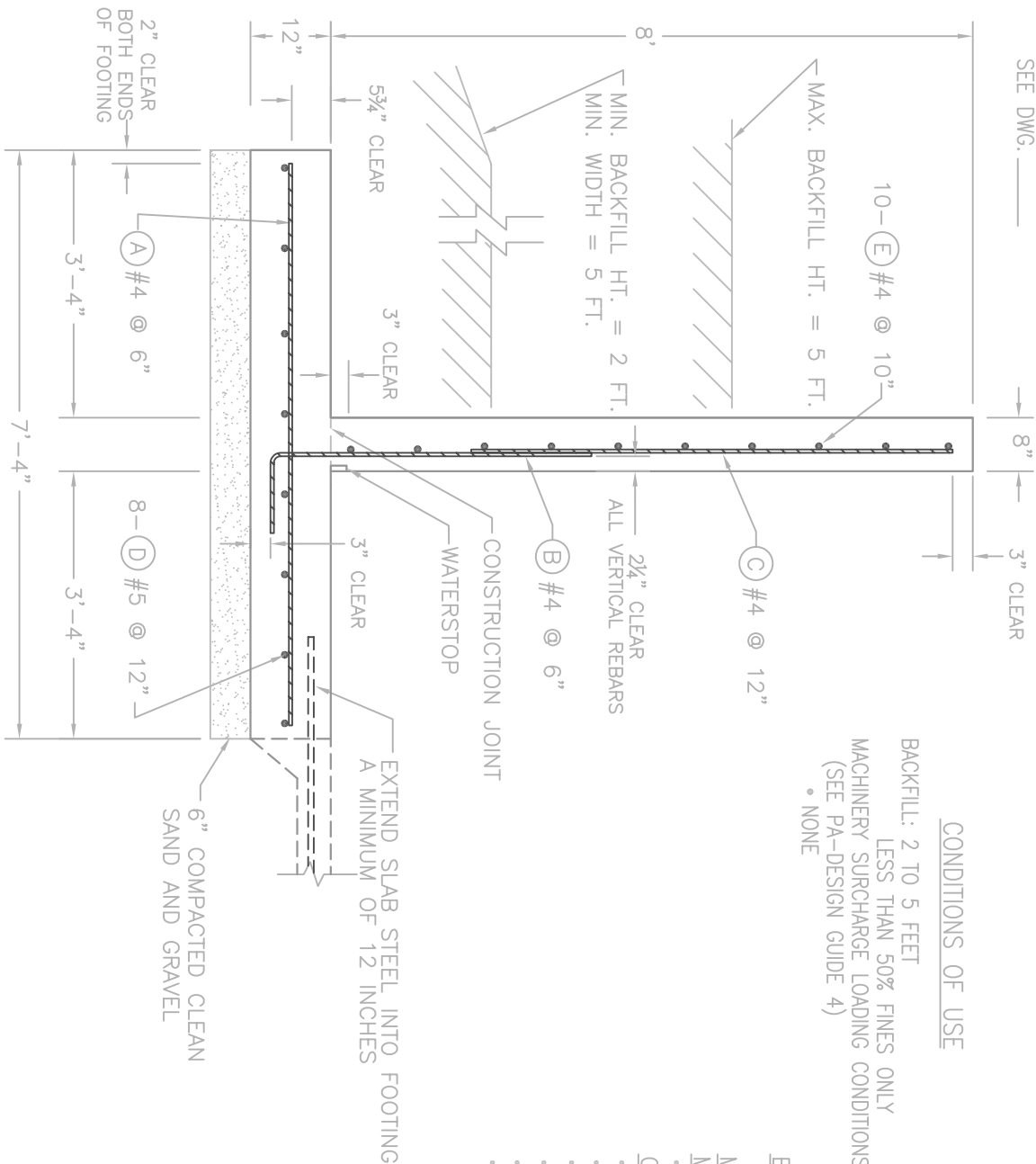
STEEL DETAILS

BAR SIZE	BEND DIAMETER (D) INCHES	SPLICE LENGTH INCHES (MIN.) *
#4	3	16
#5	3-3/4	20

* IF TWO BARS OF DIFFERENT DIAMETER ARE SPICED, USE THE LONGER SPICE LENGTH.



TYPE 2 BAR



WALL SECTION

CONSTRUCTION JOINT

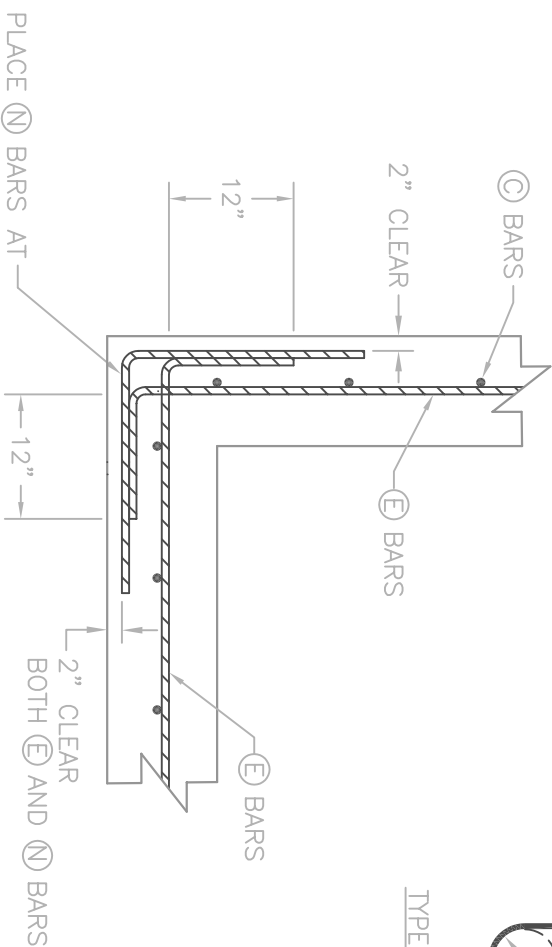
LIQUID-TIGHT JOINT --- YES --- NO

LIQUID-TIGHT JOINT OPTIONS

- ## 1) HYDROPHILIC WATERSTOP

CORNER NOTES

1. PLACE FIRST VERTICAL BAR AT WALL CORNER OR NO FURTHER THAN ONE-HALF BAR SPACING FROM THE INSIDE CORNER.
2. HOOK CAN BE SEPARATE FROM (E) BARS, PROVIDED THAT MINIMUM LAP SPLICE OF 16" FOR #4 BARS IS MET.
3. SEE WALL SECTION FOR EXACT LOCATIONS OF (C) AND (E) BARS.



PLACE (N) BARS AT —
EACH HORIZONTAL BAR
LOCATION IN TOP 4' OF
WALL ONLY.
(5 (N) BARS TOTAL PER
CORNER) CORNER BAR SCHEMATIC

CORNER BAR SCHEMATIC

PLAN VIEW - TOP 4 FEET
OF WALL SHOWN

THIS STANDARDIZED DESIGN MUST BE ADAPTED TO THE SPECIFIC SITE. IT WAS DEVELOPED IN COOPERATION WITH THE WISCONSIN DEPARTMENT OF AGRICULTURE, TRADE AND CONSUMER PROTECTION. THE DESIGN FOLDER IS FILED AT THE NRCS STATE OFFICE, 8030 EXCELSIOR DRIVE, MADISON, WISCONSIN 53717-2906



COUNTY, PENNSYLVANIA

8' HIGH, 8" T-WALL, (BACKFILL 2-5 FT., <50% FINES)

MACHINERY LOADING ALLOWED

Date _____

06/24/05

Designed

Drawn **TJA**

Checked

Approved by

File No.

PA-028C

Drawing No.

PA-028C

Sheet: _____ of _____